

Public Health Applications of Human Biomonitoring

U.S. Environmental Protection Agency
Main Campus, Building C, Auditorium
Research Triangle Park, NC 27711

September 24-25, 2007

Agenda

Monday, September 24, 2007

- 7:00 a.m. – 8:30 a.m.** **Registration and Continental Breakfast**
- 8:30 a.m. – 9:05 a.m.** **Welcome**
Carol Henry, American Chemistry Council
George Gray, U.S. Environmental Protection Agency
- 9:05 a.m. – 9:15 a.m.** **Workshop Objectives and Expectations of Outcome**
Janet Mostowy, Bayer Corporation

Plenary Session I: Setting the Stage for the Meeting

Chair: *Lawrence Reiter*, U.S. Environmental Protection Agency

- 9:15 a.m. – 9:45 a.m.** **Human Biomonitoring Activities and the Vision for Europe**
Ovnair Sepai, UK Health Protection Agency
- 9:45 a.m. – 10:15 a.m.** **Using Biomarkers to Characterize Human Benzene Metabolism**
Stephen Rappaport, University of California at Berkeley
- 10:15 a.m. – 10:45 a.m.** **Break**

Plenary Session II: Applications of Biomonitoring in Public Health

Chair: *Hugh Tilson*, U.S. Environmental Protection Agency

- 10:45 a.m. – 11:15 a.m.** **Applications of Biomonitoring in Environmental Decision Making**
Linda Sheldon, U.S. Environmental Protection Agency
- 11:15 a.m. – 11:45 a.m.** **The Flemish Environmental Human Biomonitoring Program: 2002–2006**
Greet Schoeters, VITO (Flemish Institute for Technological Research)
- 11:45 a.m. – 12:15 p.m.** **Biomonitoring and Children's Health: Global Perspectives**
Ondine von Ehrenstein, National Institute of Child Health and Human Development

12:15 p.m. – 12:45 p.m.	Biomonitoring in Europe: Ethics <i>Lisbeth Knudsen, University of Copenhagen</i>
12:45 p.m. – 2:00 p.m.	Lunch (<i>on your own</i>)
2:00 p.m. – 5:00 p.m.	Parallel Symposia

Symposium I: Scientific Advances in Interpretation of Biomonitoring Data
 Chair: *Peter Boogaard, Shell*
 Rapporteur: *Chris Money, ExxonMobil*
 Recorder: *Rebecca Kauffman, ICF International*

Description of Parallel Symposia and Charge to Participants (15 min.)
Peter Boogaard, Shell

Speakers (30 min. each with 1 hr. discussion):

Interpretation of Human Biomonitoring Data Using a Forward Dosimetry Approach: Permethrin a Case Study
Marsha Morgan, U.S. Environmental Protection Agency

The Application of Probabilistic Reverse Dosimetry for Interpreting Human Biomonitoring Data
Harvey Clewell, The Hamner Institutes for Health Sciences

Interpretation of Human Biomonitoring Data in a Public Health Risk Context Using Biomonitoring Equivalents
Sean Hays, Summit Toxicology

Symposium II: Challenges Faced in Communication of Biomonitoring Information
 Chair: *Dana Barr, Centers for Disease Control and Prevention*
 Rapporteur: *Annette Guiseppi-Elie, Dupont*
 Recorder: *Kimberly Osborn, ICF International*

Description of Parallel Symposia and Charge to Participants (15 min.)
Dana Barr, Centers for Disease Control and Prevention

Speakers (30 min. each with 1 hr. discussion):

Communication of Biomonitoring Information
Robert Zachariasiewicz, U.S. Environmental Protection Agency

The Boston Consensus Conference on Biomonitoring: Process, Findings and Recommendations
Madeleine Scammell, Boston University School of Public Health

Challenges in Communicating: One Reporter's Perspective
Pat Rizzuto, BNA, Inc.

Symposium III: Application of Biomonitoring Data To Usefully Characterize and Prioritize Certain Vulnerable Populations (for Public Health Tracking)

Chair: *Larry Needham*, Centers for Disease Control and Prevention

Rapporteur: *Judy Graham*, American Chemistry Council

Recorder: *Ami Parekh*, ICF International

Description of Parallel Symposia and Charge to Participants (15 min.)

Larry Needham, Centers for Disease Control and Prevention

Speakers (30 min. each with 1 hr. discussion):

Human Health Implications of Arctic Environmental Contaminants

Jay Van Oostdam, Health Canada

Biomarker for Prenatal Ethanol Exposure: Identifying a Vulnerable Population

Cynthia Bearer, Case University

CDC's Environmental Public Health Tracking Network and Biomonitoring

Beverly Kingsley, Centers for Disease Control and Prevention

5:00 p.m. – 6:30 p.m.

Reception and Poster Viewing

Atrium

6:30 p.m. – 8:30 p.m.

Group Dinner (Cafeteria)

Tuesday, September 25, 2007

7:00 a.m. – 8:00 a.m. Continental Breakfast

8:00 a.m. – 10:00 a.m. Parallel Symposia (Continued)

Symposium I: Scientific Advances in Interpretation of Biomonitoring Data

Chair: *Peter Boogaard*, Shell

Rapporteur: *Chris Money*, ExxonMobil

Recorder: *Rebecca Kauffman*, ICF International

Speakers (30 min. each):

Biomarkers in Epidemiology: The Best Thing Since Sliced Bread or Just Another Tool?

Jane Hoppin, National Institute of Environmental Health Sciences

Biomarkers of Exposure and Effect to Environmental Carcinogens, and Their Applicability to Human Molecular Epidemiological Studies

Peter Farmer, University of Leicester

Panel discussion (including speakers above and panelists listed below):

Brenda Weis, National Institute of Environmental Health Science

Marsha Morgan, U.S. Environmental Protection Agency

Harvey Clewell, The Hamner Institutes for Health Sciences

Sean Hays, Summit Toxicology

Symposium II: Challenges Faced in Communication of Biomonitoring Information

Chair: *Dana Barr*, Centers for Disease Control and Prevention

Rapporteur: *Annette Guiseppi-Elie*, Dupont

Recorder: *Kimberly Osborn*, ICF International

Speakers (30 min. each):

Balancing Act: Communicating Information About Biomonitoring and Surviving to Tell the Tale

Dorothy Sussman, Centers for Disease Control and Prevention

Reporting Biomonitoring Results to Individuals and Medical and Public Audiences: Challenges and Opportunities

Asa Bradman, University of California at Berkeley

Panel discussion (including speakers above and panelists listed below):

Cheryl Hogue, Chemical & Engineering News

Pat Rizzuto, BNA, Inc.

David Ewing Duncan, National Geographic

Robert Zachariasiewicz, U.S. Environmental Protection Agency

Madeleine Scammell, Boston University School of Public Health

Symposium III: Application of Biomonitoring Data To Usefully Characterize and Prioritize Certain Vulnerable Populations (for Public Health Tracking)

Chair: *Doug Haines*, Health Canada

Rapporteur: *Larry Needham*, Centers for Disease Control and Prevention

Recorder: *Ami Parekh*, ICF International

Speakers (30 min. each):

Opportunities for Linking Biomonitoring Data to Risk Assessment and Public Health in the National Children's Study

Jim Quackenboss, U.S. Environmental Protection Agency

Mechanistic Indicators of Childhood Asthma (MICA)—Integrating Environmental, Clinical and Susceptibility Markers to Improve the Impact of Human Air Pollution Studies

Jane Gallagher, U.S. Environmental Protection Agency

Panel discussion (including speakers above and panelists listed below):

Cynthia Bearer, Case University

Beverly Kingsley, Centers for Disease Control and Prevention

Lisbeth Knudsen, University of Copenhagen

10:00 a.m. – 10:30 a.m. *Break*

Plenary Session III: International Perspectives

Chair: *Elaine Cohen Hubal*, U.S. Environmental Protection Agency

10:30 a.m. – 10:50 a.m. Challenges Faced in the Less Industrialized Regions of the World

Paul Erhardt, International Union of Pure and Applied Chemistry

10:50 a.m. – 11:10 a.m. Maternal-Infant Biomonitoring: The Epidemiological Challenges

Tye Arbuckle, Health Canada

11:10 a.m. – 11:30 a.m. Challenge to Improving the Precision of Risk Evaluation Systems for Humans

Fumiaki Shono, Japan Chemical Industry Association

Plenary Session IV: Parallel Symposia Report Back

Chair: *Judy Graham*, American Chemistry Council

11:30 a.m. – 11:50 a.m. *Chris Money*, ExxonMobil

11:50 a.m. – 12:10 p.m. *Annette Guiseppi-Elie*, Dupont

12:10 p.m. – 12:30 p.m. *Doug Haines*, Health Canada

12:30 p.m. – 1:30 p.m. *Lunch (on your own)*

Plenary Session V: Looking Ahead: Perspectives on the Public Health Applications of Biomonitoring Data

Chair: *Jerry Blancato*, U.S. Environmental Protection Agency

1:30 p.m. – 2:00 p.m. **The POPs Global Monitoring Plan Under the Stockholm Convention**
Katarina Magulova, United Nations Environment Programme

2:00 p.m. – 2:30 p.m. **Biomonitoring: A Public Interest and Public Health Perspective**
John Balbus, Environmental Defense

2:30 p.m. – 3:00 p.m. **Children's Environmental Health: Biomonitoring and the National Children's Study**
Duane Alexander, National Institute of Child Health and Human Development

3:00 p.m. *Adjournment*